

208220 9E9580T

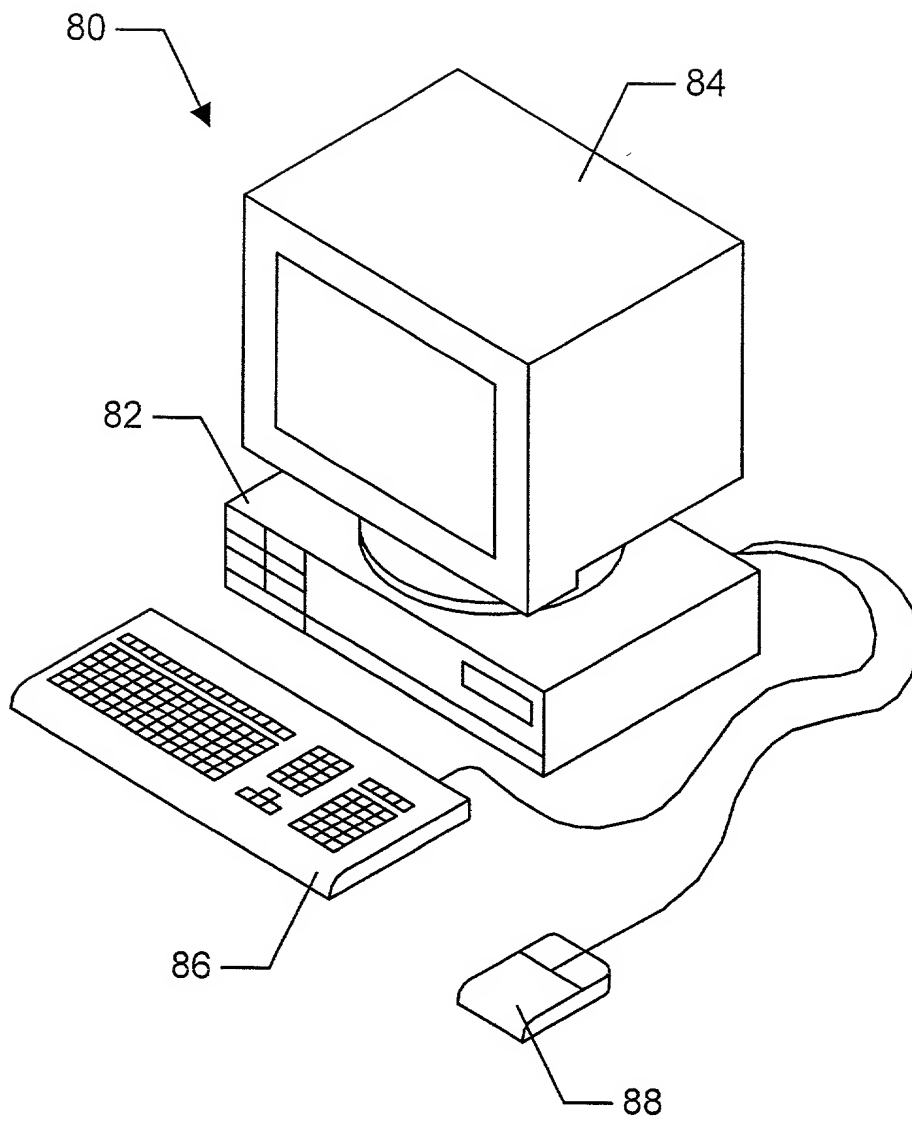


FIG. 1

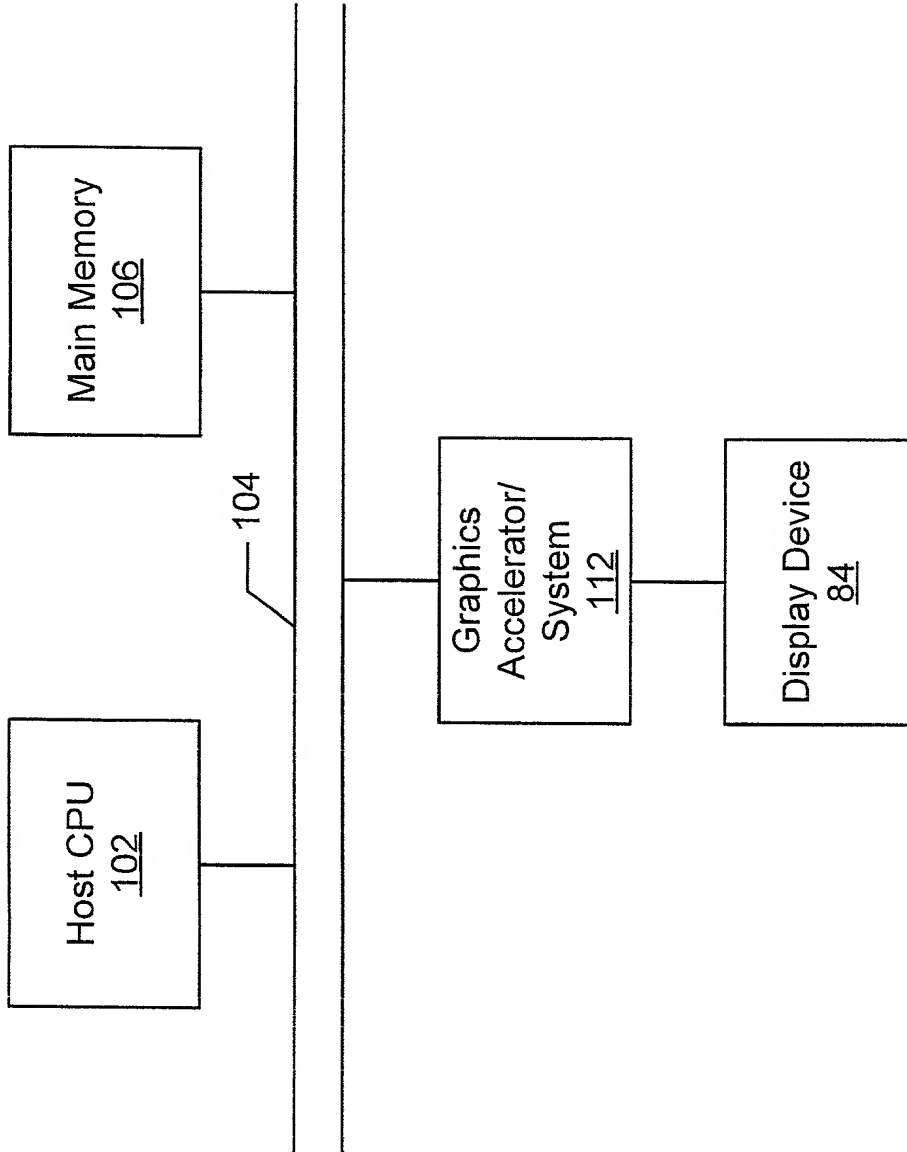


FIG. 2

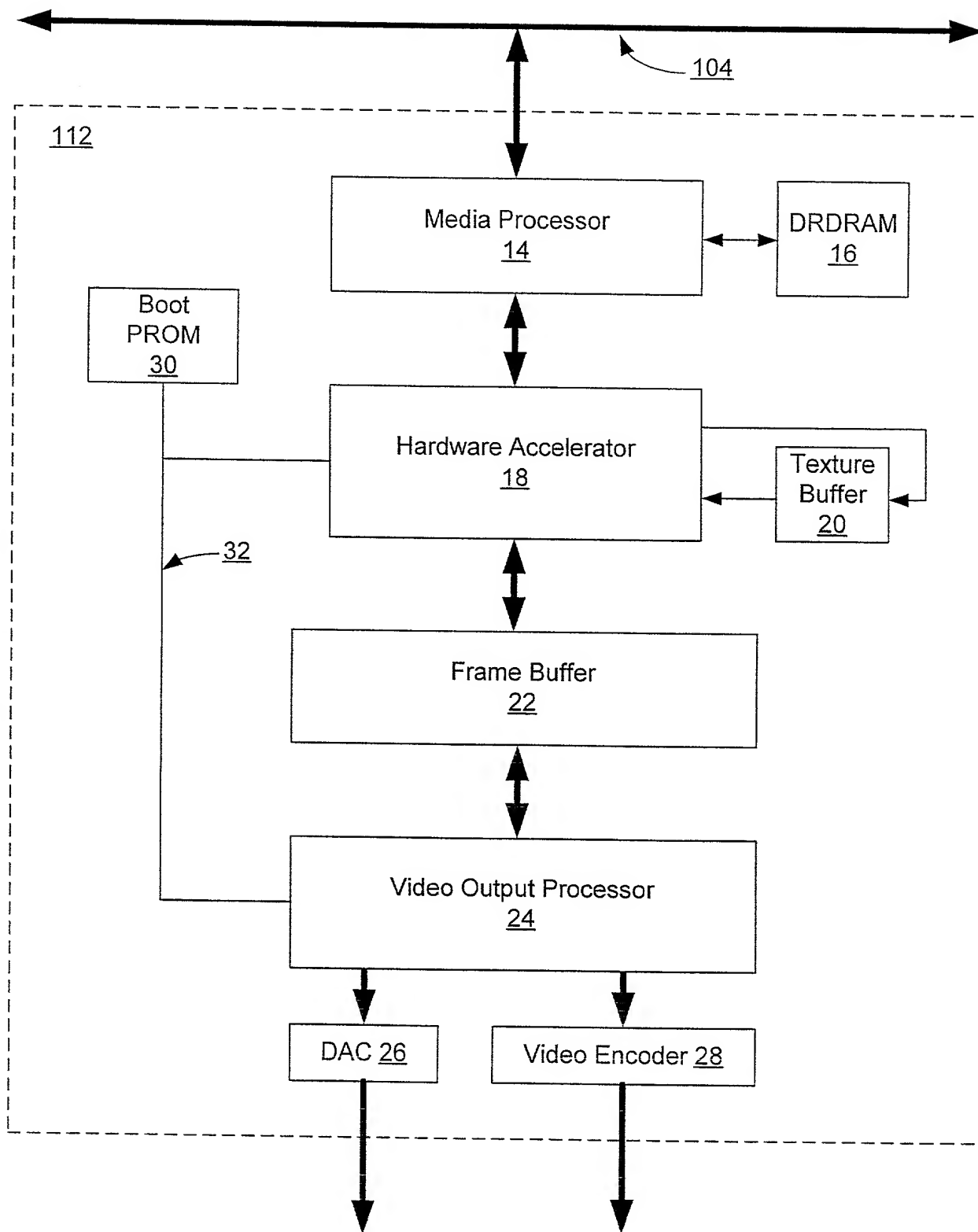


FIG. 3

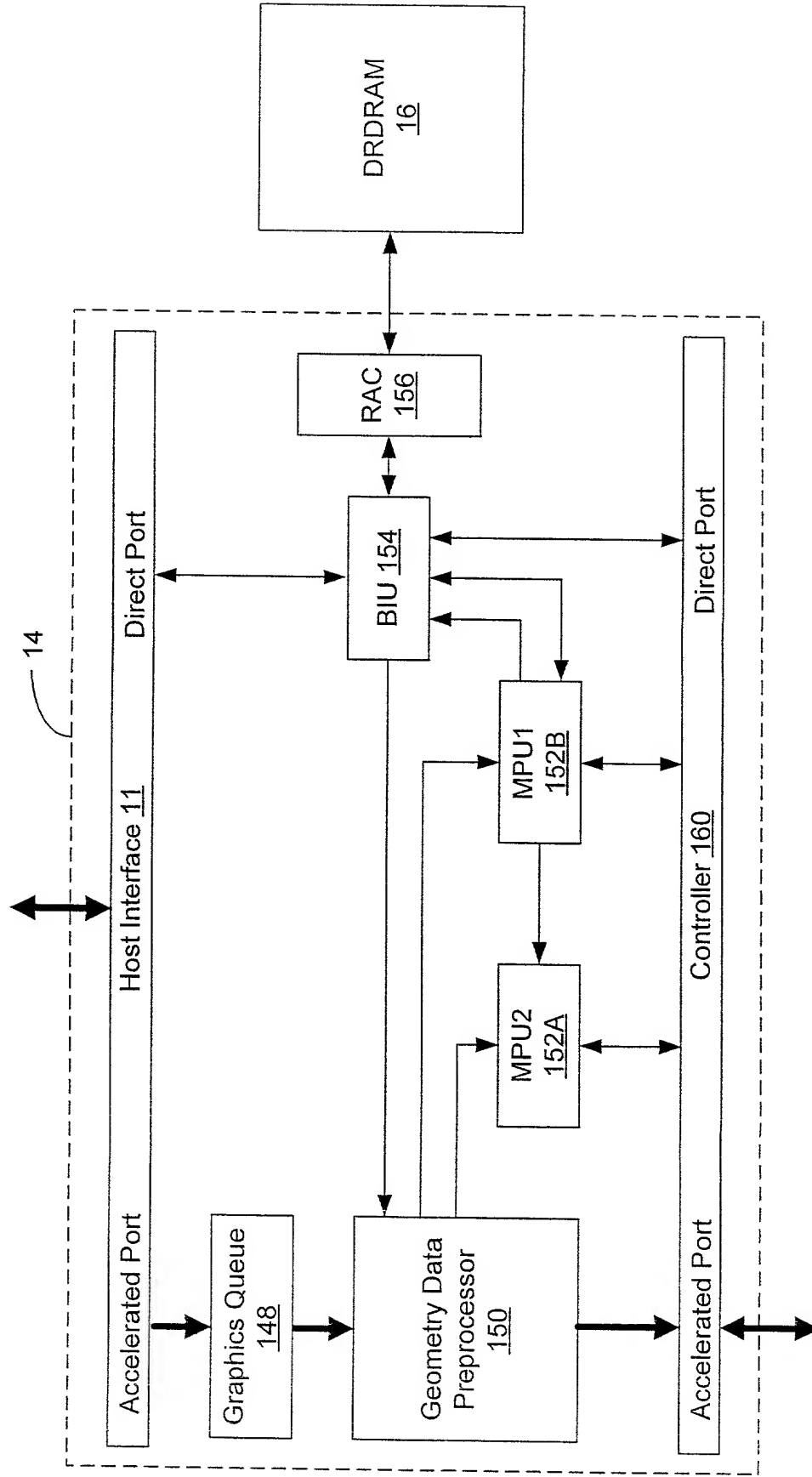


FIG. 4

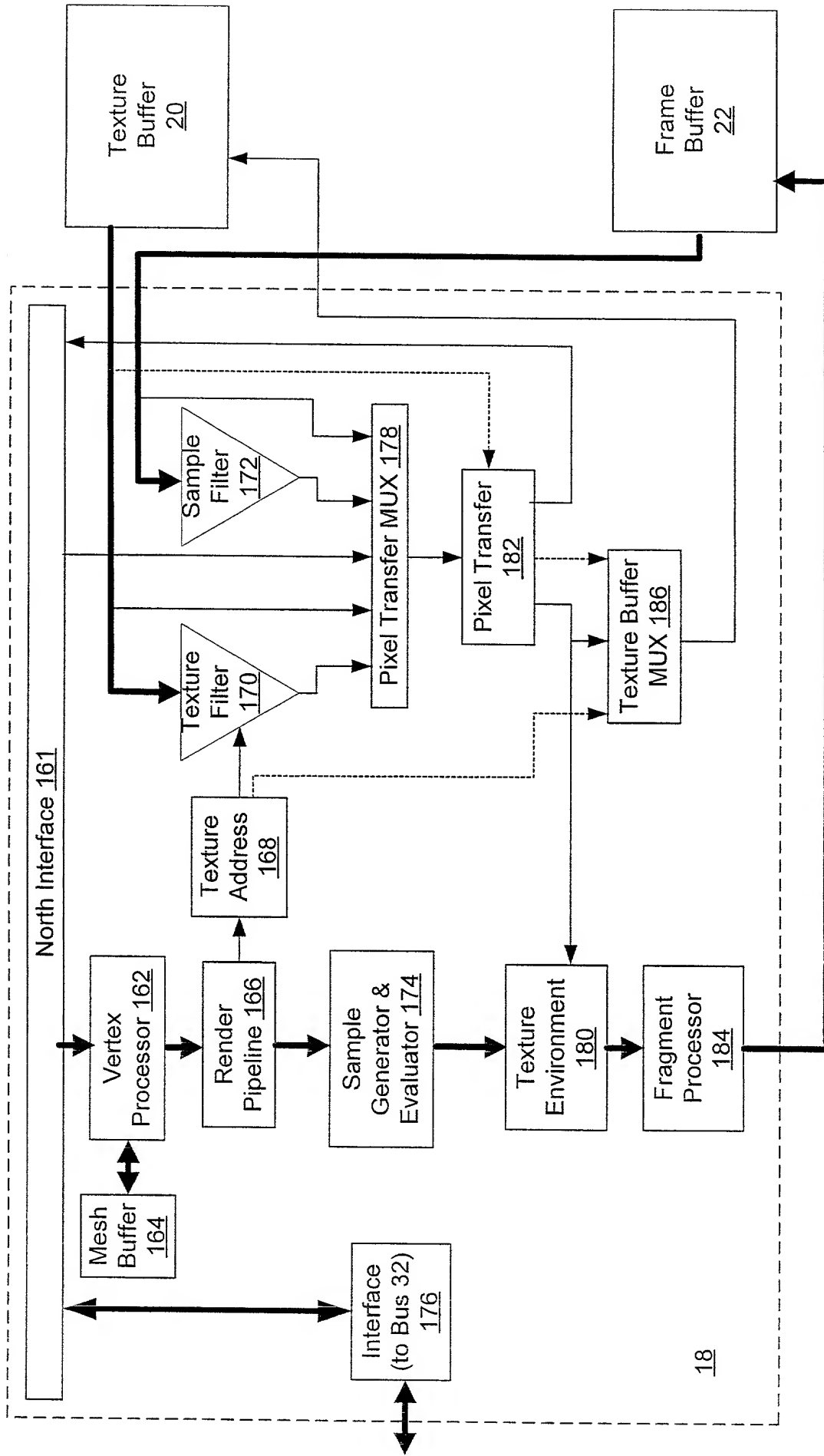


FIG. 5

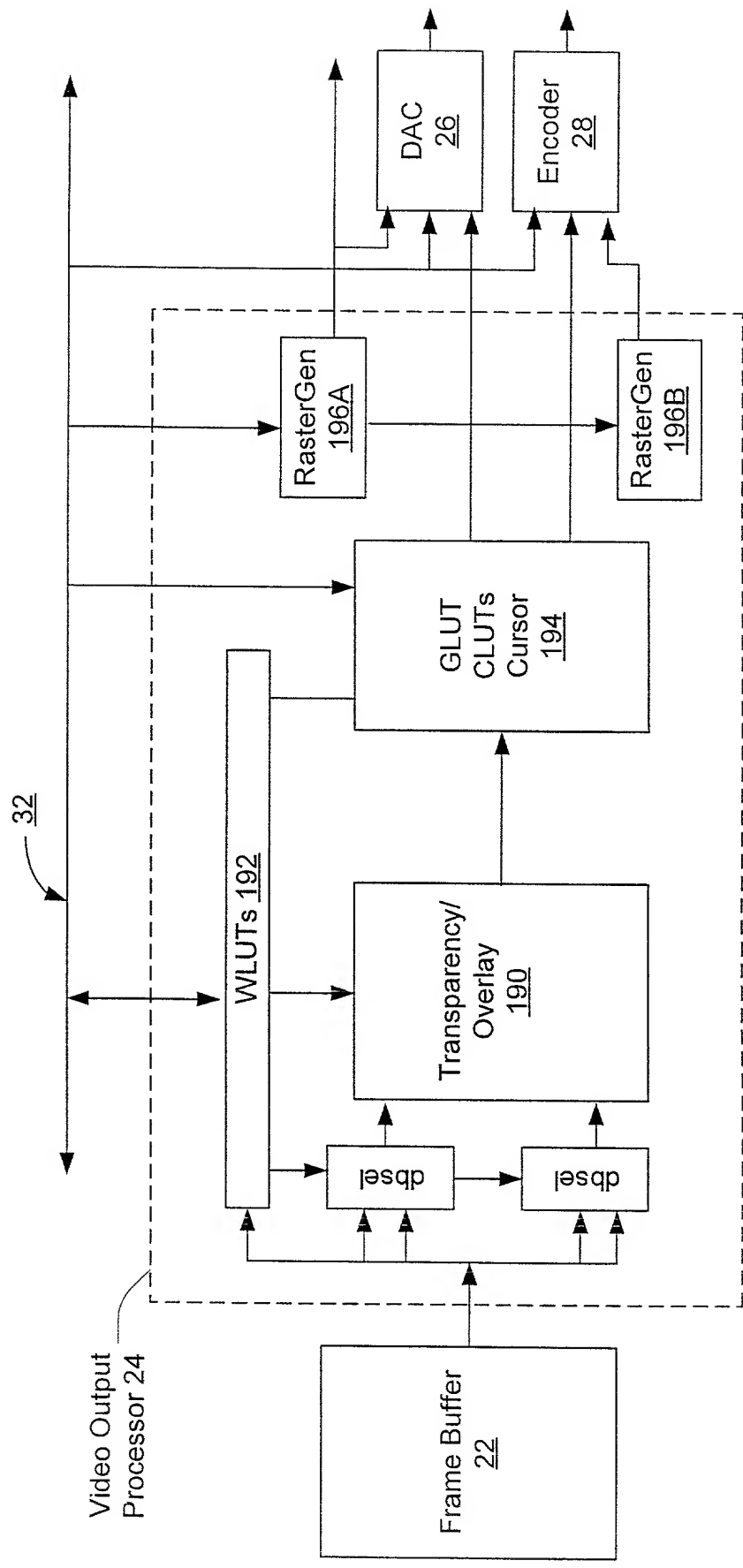


FIG. 6

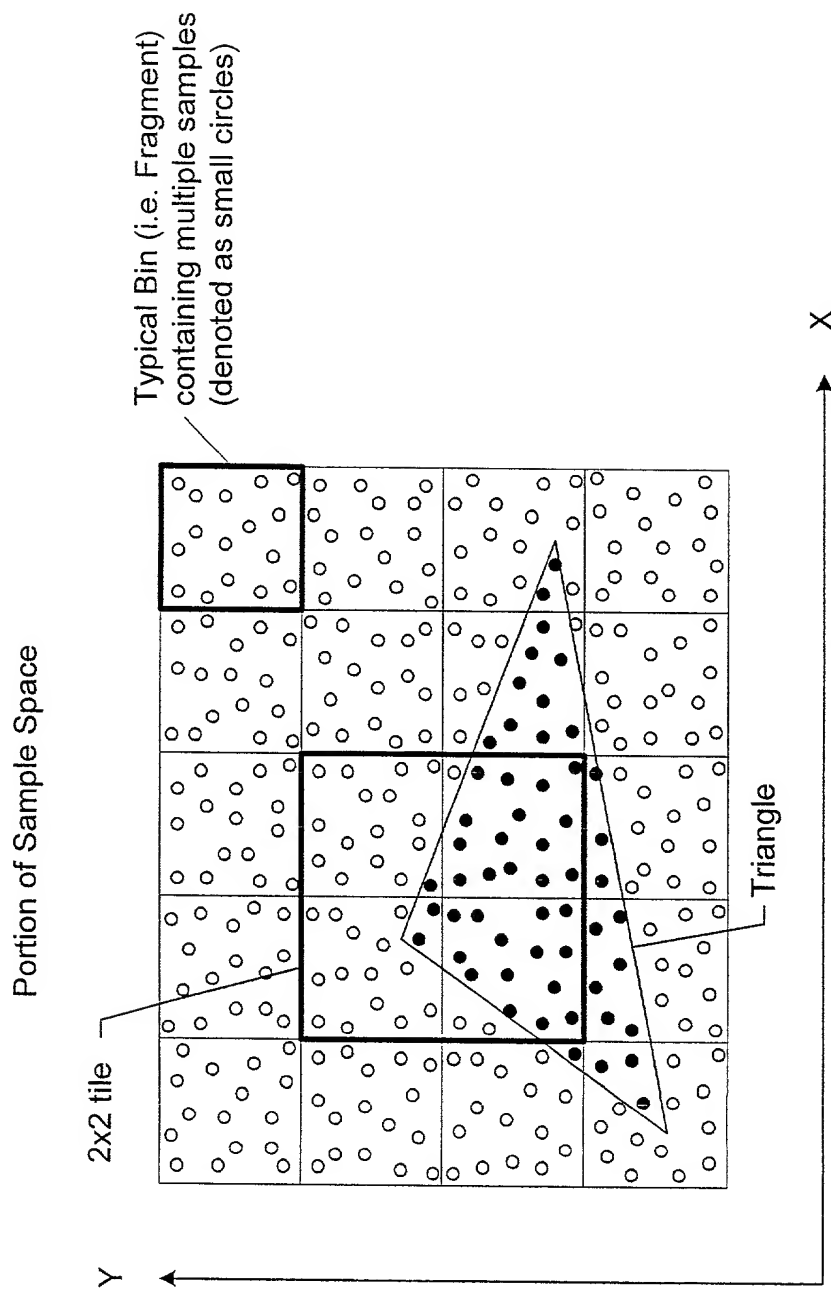


Fig. 7

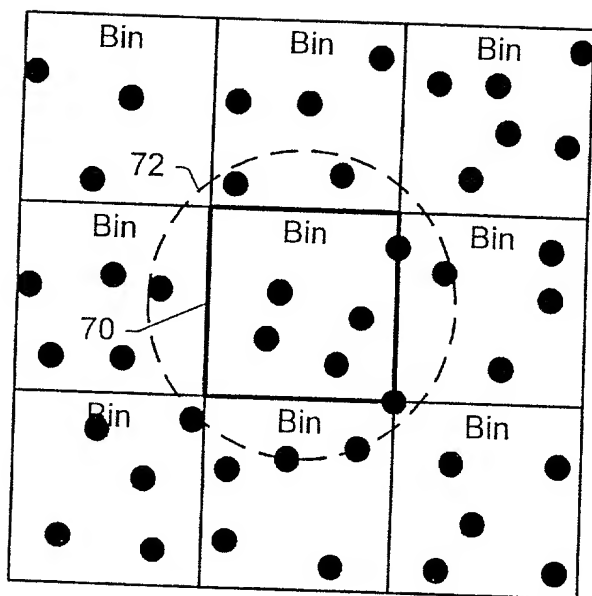


Fig.

8

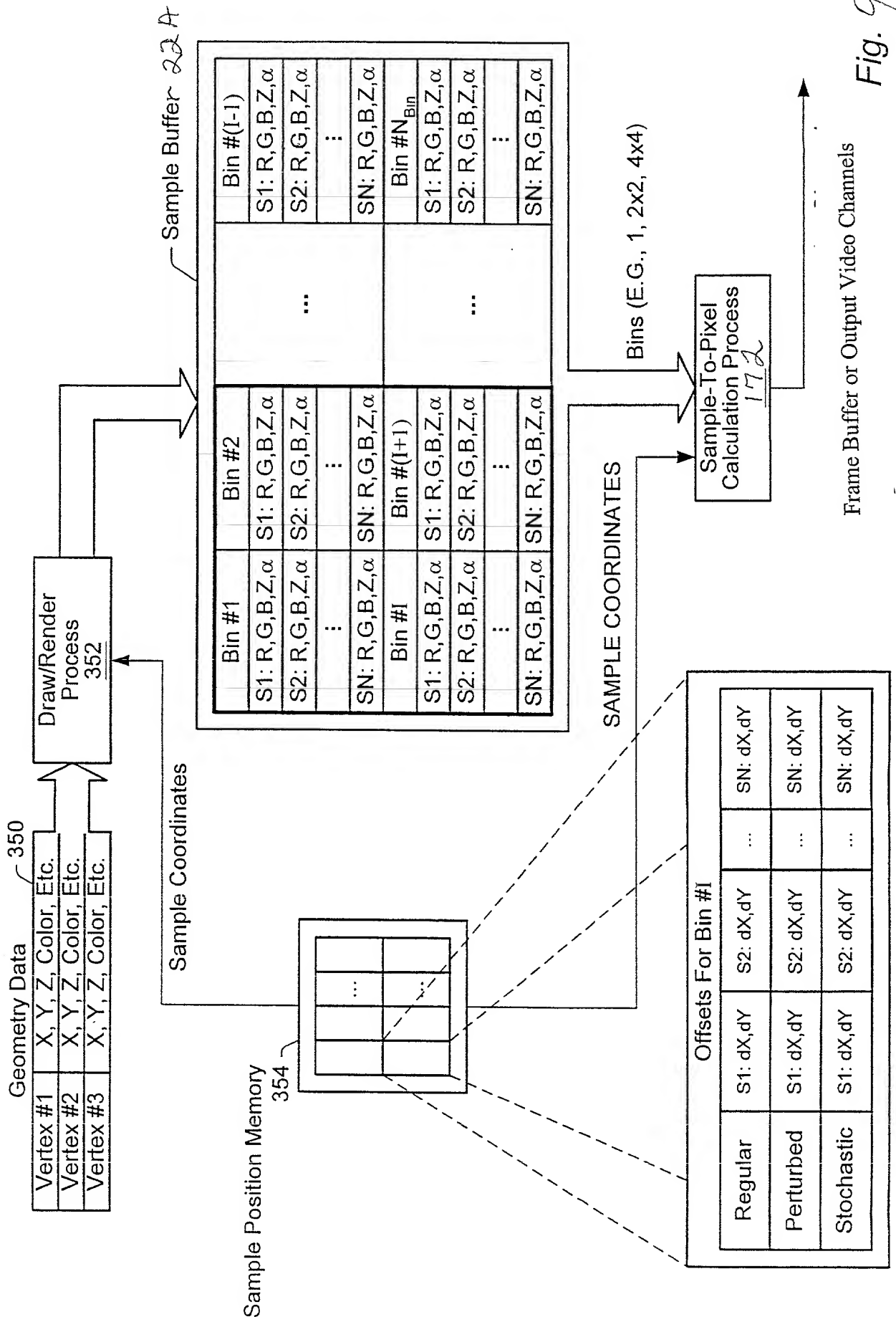


Fig. 9

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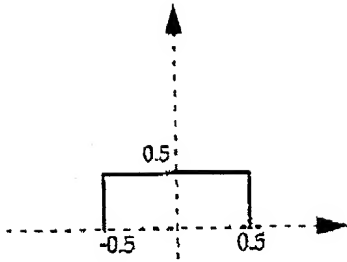


Figure 10A

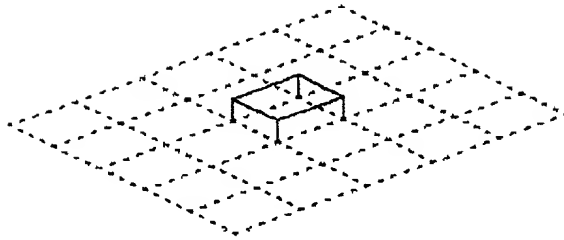
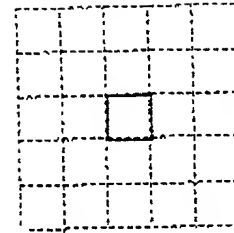


Figure 10B



filter base

Figure 10C

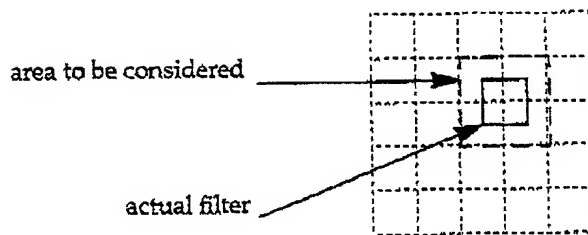
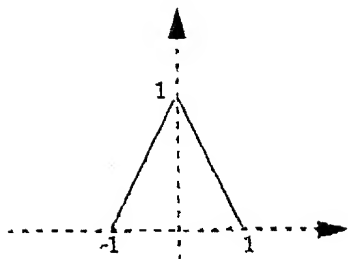
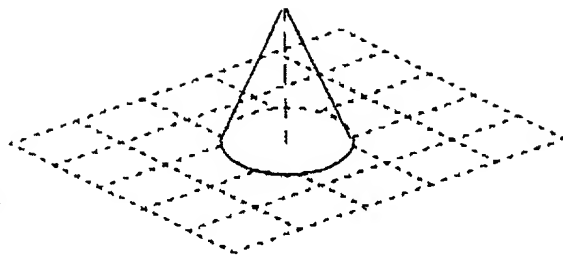


Figure 10D

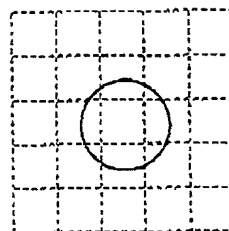
208220" 9E95800T



11A



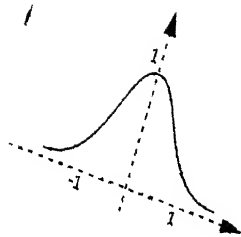
11B



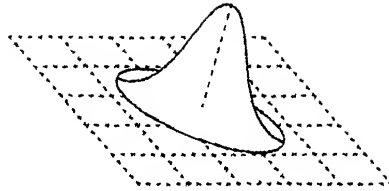
filter base

11C

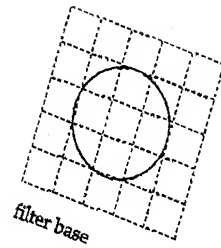
208220-9E95200T



12A

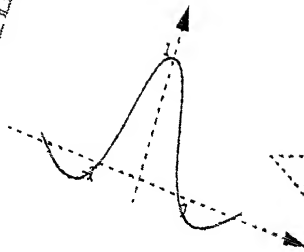


12B

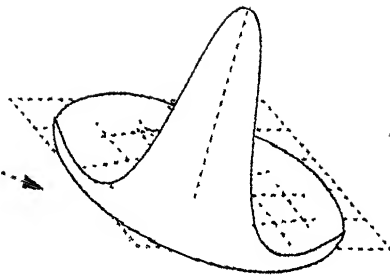


filter base

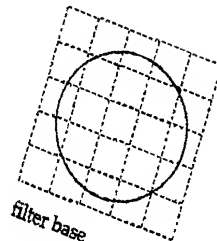
12C



13A



13B



filter base

13C

208220" 955800T 10085636 022802

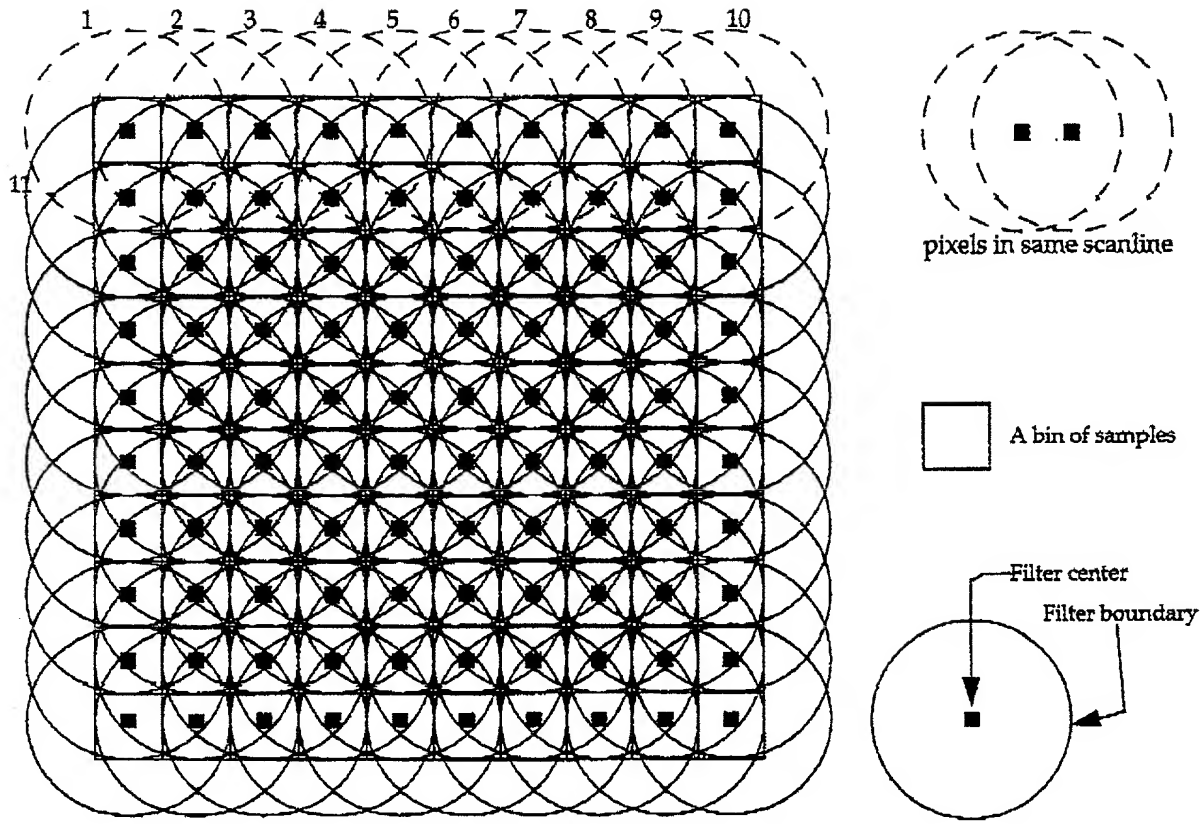
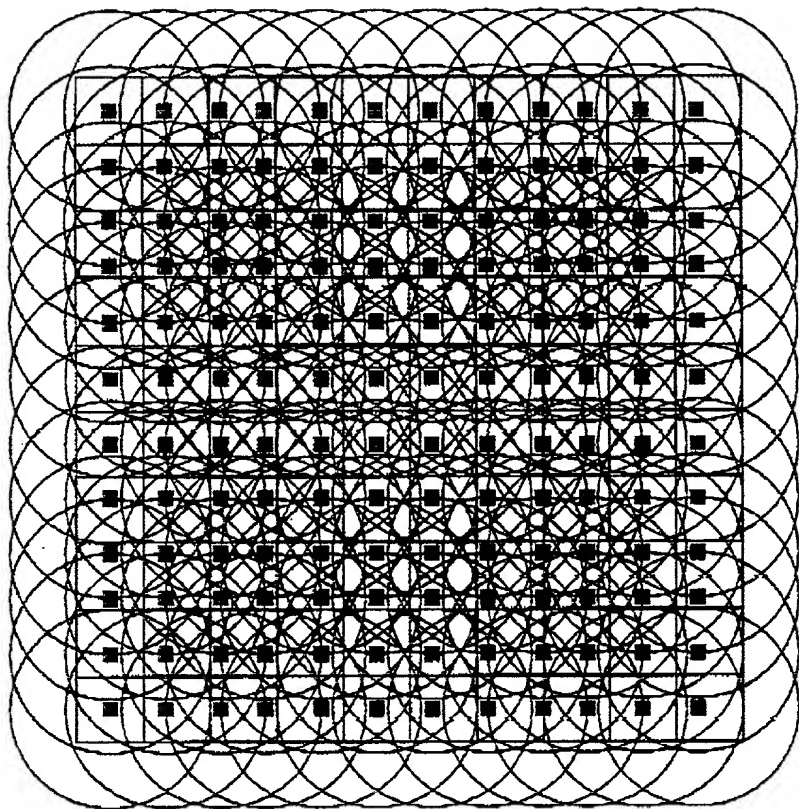



Figure 14

208220" 9E9800T



 A bin of samples

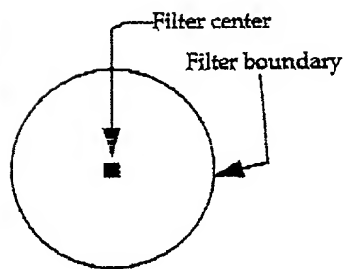
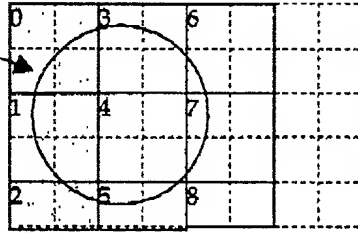


Fig 15

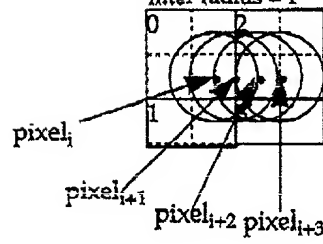
208220" 9E95800T
10085636" 022802

2xn strip



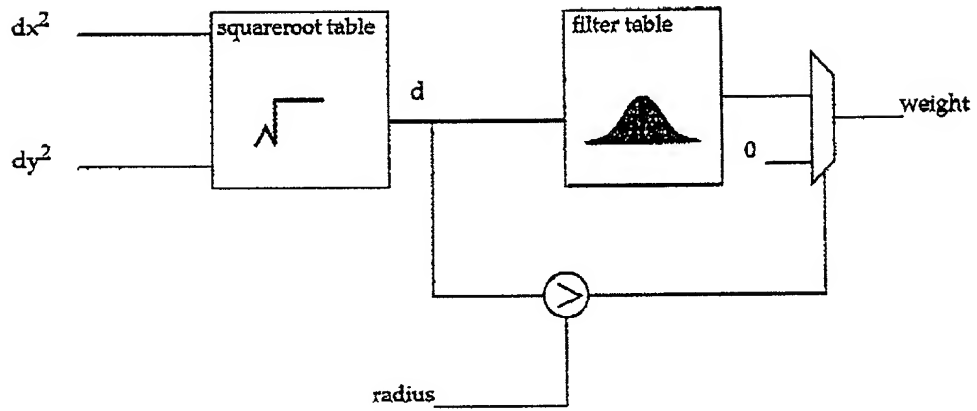
16

zoom factor = 2, delta = 0.5
filter radius = 1



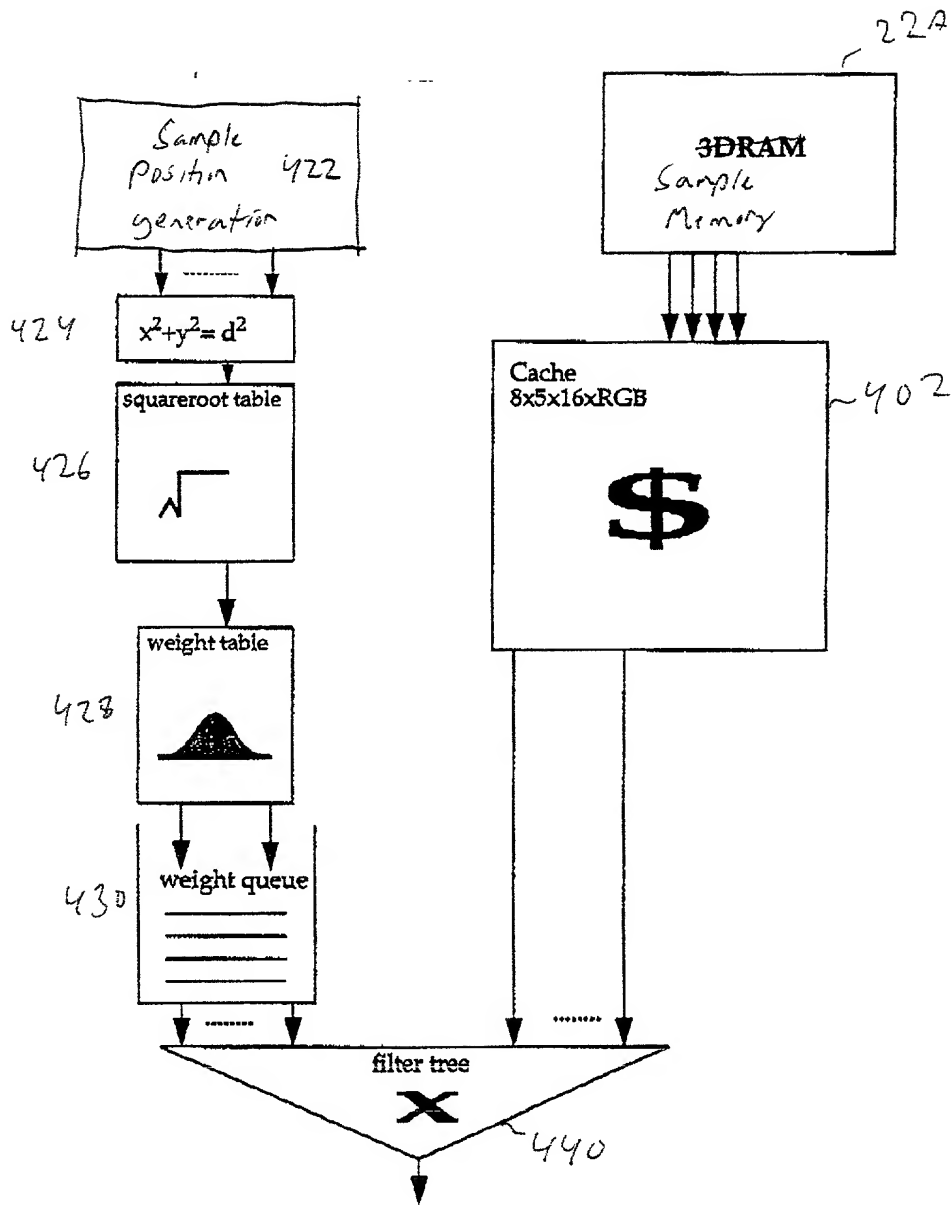
17

10085636.022802

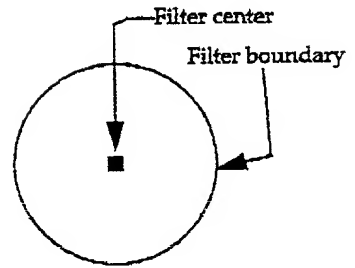
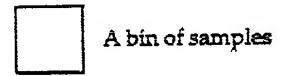
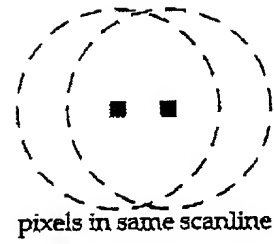
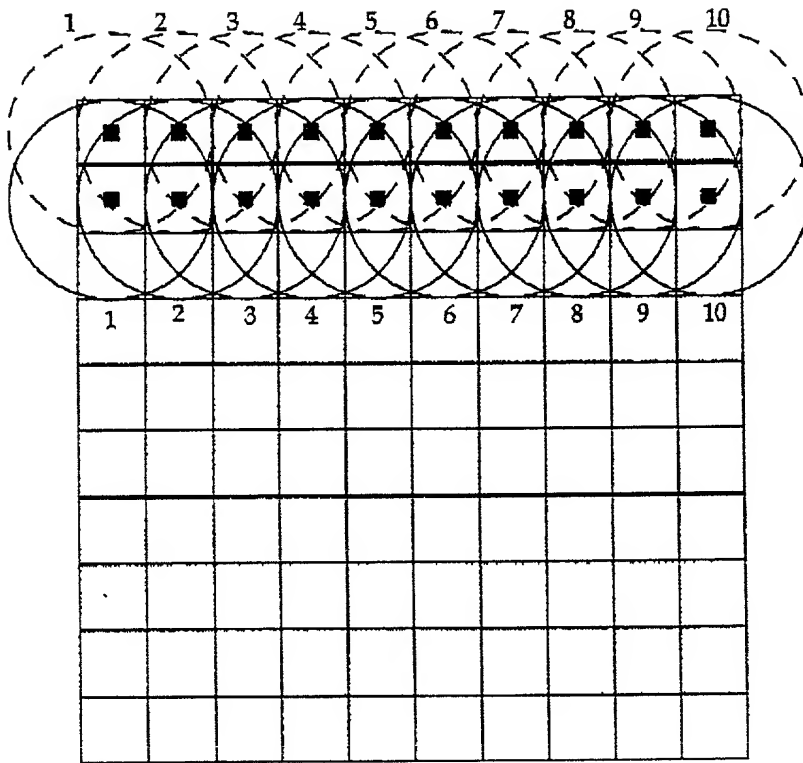


18

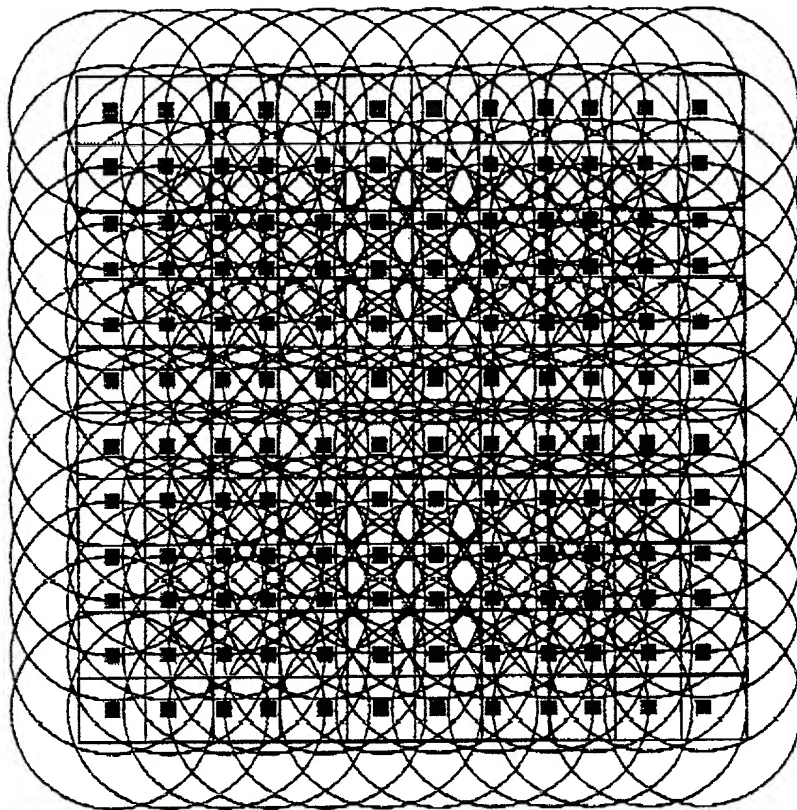
10055636.022802




10085536.022807

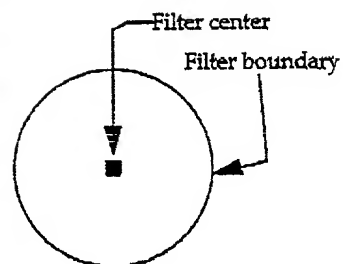


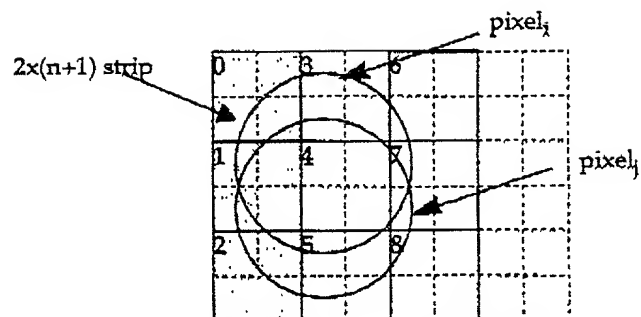
208220" 9E958001



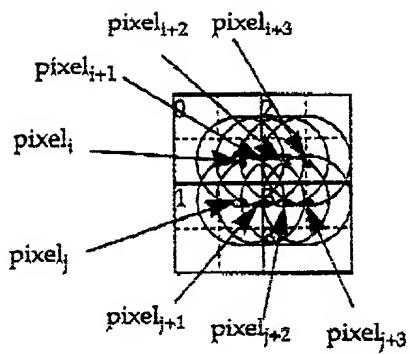
21

 A bin of samples





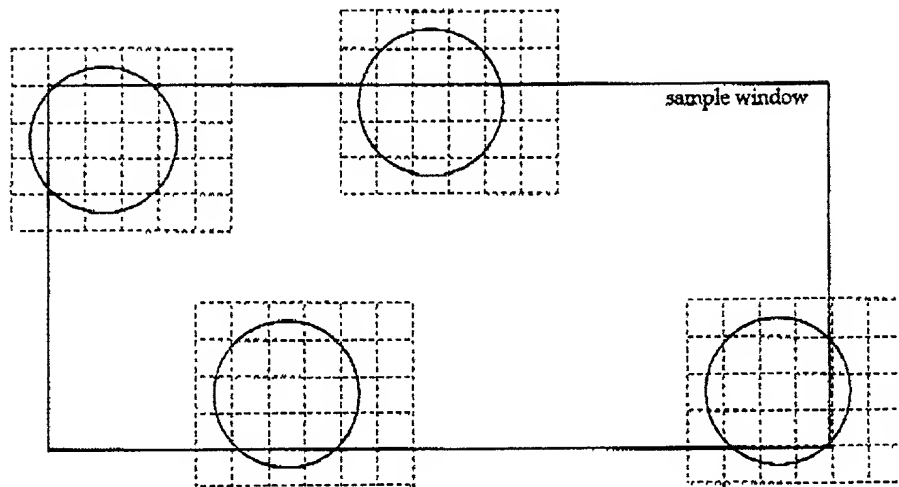
22



zoom factor = 2, delta = 0.5
filter radius = 1

23

208220" 9E95800T



24

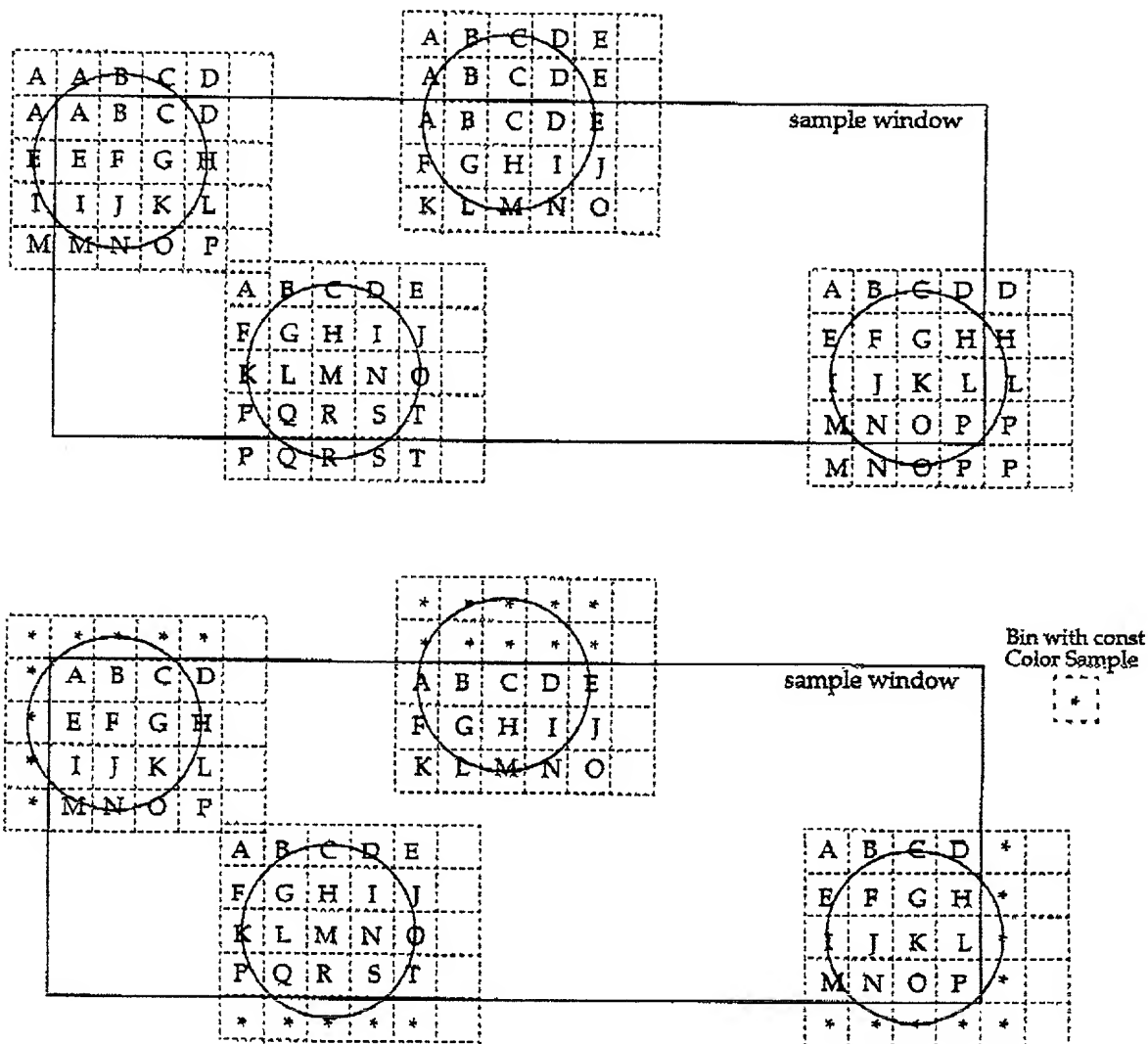
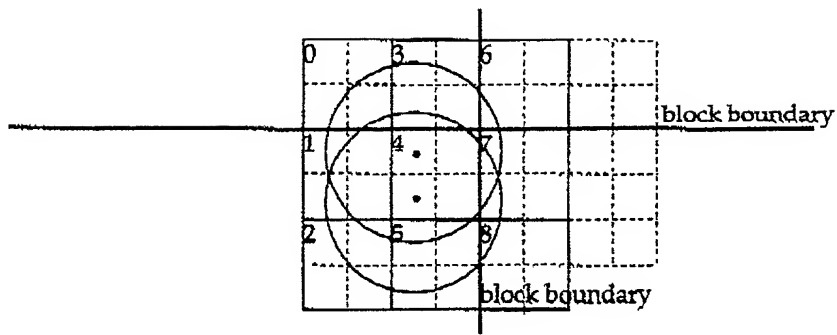
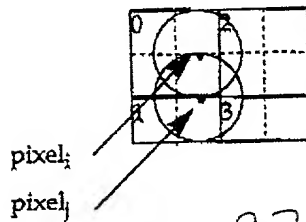


Figure 25

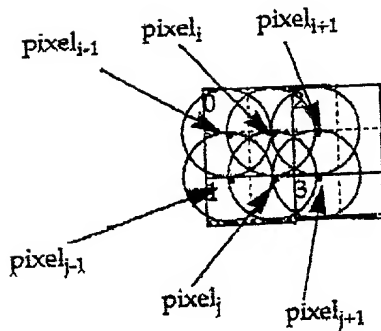


26



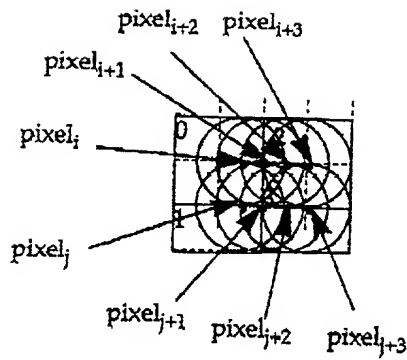
- 0 read tile 0
- 1 read half tile 1
- 2 read tile 2
- 3 read half tile 3
- 4 filter $pixel_i$

27



- 0 read tile 0
- 1 read half tile 1
- 2 filter $pixel_{i-1}$ & $pixel_{j-1}$
- 3 read tile 2
- 4 read half tile 3
- 5 filter $pixel_i$ & $pixel_j$
- 6 filter $pixel_{i+1}$ & $pixel_{j+1}$

28



- 0 read tile 0
- 1 read half tile 1
- 2 read tile 2
- 3 read half tile 3
- 4 filter pixel_i & pixel_j
- 5 filter pixel_{i+1} & pixel_{j+1}
- 6 filter pixel_{i+2} & pixel_{j+2}
- 7 filter pixel_{i+3} & pixel_{j+3}

29

For Non-Buddy Mode:

binInlv [1:0]	sample[1:0]			
	0	1	2	3
0	a	b	c	d
1	c	d	a	b
2	d	c	b	a
3	b	a	d	c

where a, b, c, d identify different
interleave bus to 3DRAM

For Buddy Mode:

binInlv [1:0]	sample[2:0]							
	0	1	2	3	4	5	6	7
0	a	a	b	b	c	c	d	d
1	c	c	d	d	a	a	b	b
2	d	d	c	c	b	b	a	a
3	b	b	a	a	d	d	c	c

where a, b, c, d identify different
interleave bus to 3DRAM

— Figure 30



A full tile from SW



SD16 Mapping:

binInlv [1:0]	sample															
	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
0	a	b	c	d	a	b	c	d	a	b	c	d	a	b	c	d
1	c	d	a	b	c	d	a	b	c	d	a	b	c	d	a	b
2	d	c	b	a	d	c	b	a	d	c	b	a	d	c	b	a
3	b	a	d	c	b	a	d	c	b	a	d	c	b	a	d	c



16 sample tiles from SG to Fragment Pipe



A full tile from SW

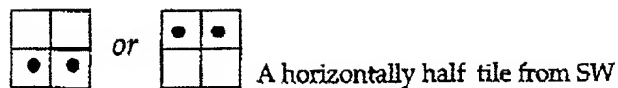


SD16B Mapping:

binInlv [1:0]	sample															
	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
0	a	a	b	b	c	c	d	d	a	a	b	b	c	c	d	d
1	c	c	d	d	a	a	b	b	c	c	d	d	a	a	b	b
2	d	d	c	c	b	b	a	a	d	d	c	c	b	b	a	a
3	b	b	a	a	d	d	c	c	b	b	a	a	d	d	c	c



16 sample tiles from SG to Fragment Pipe

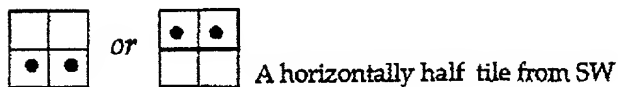


SD16 Mapping:

binInlv [1:0]	sample															
	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
0	a	b	c	d	a	b	c	d	a	b	c	d	a	b	c	d
1	c	d	a	b	c	d	a	b	c	d	a	b	c	d	a	b
2	d	c	b	a	d	c	b	a	d	c	b	a	d	c	b	a
3	b	a	d	c	b	a	d	c	b	a	d	c	b	a	d	c



8 sample tiles from SG to Fragment Pipe



SD16B Mapping:

binInlv [1:0]	sample															
	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
0	a	a	b	b	c	c	d	d	a	a	b	b	c	c	d	d
1	c	c	d	d	a	a	b	b	c	c	d	d	a	a	b	b
2	d	d	c	c	b	b	a	a	d	d	c	c	b	b	a	a
3	b	b	a	a	d	d	c	c	b	b	a	a	d	d	c	c



8 sample tiles from SG to Fragment Pipe

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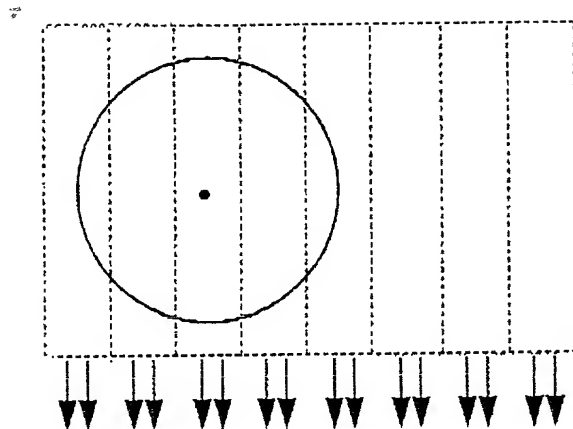
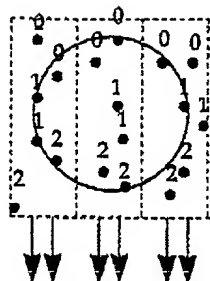
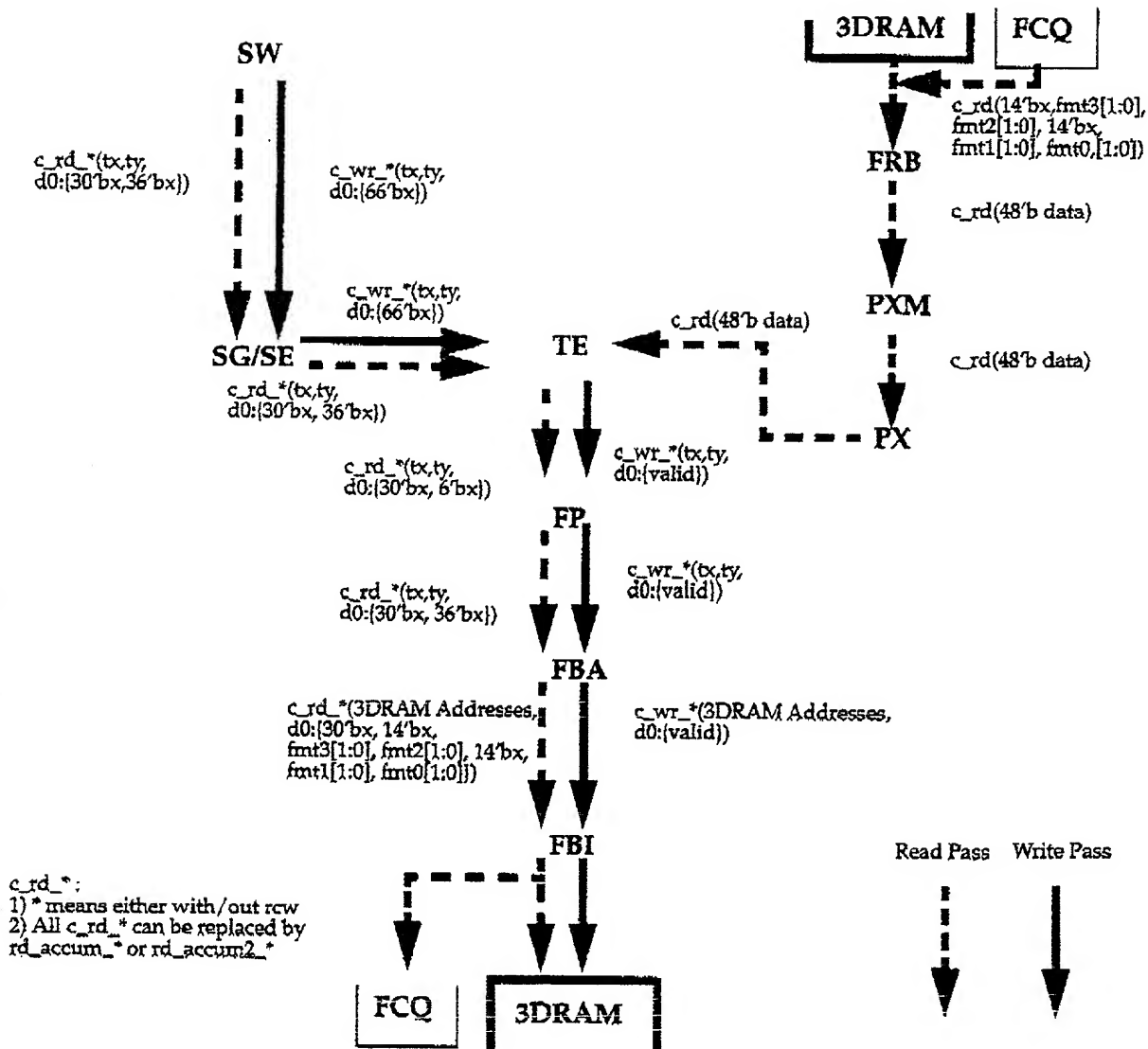


Fig 33



• sample

Fig 34



20220220 09:53:00

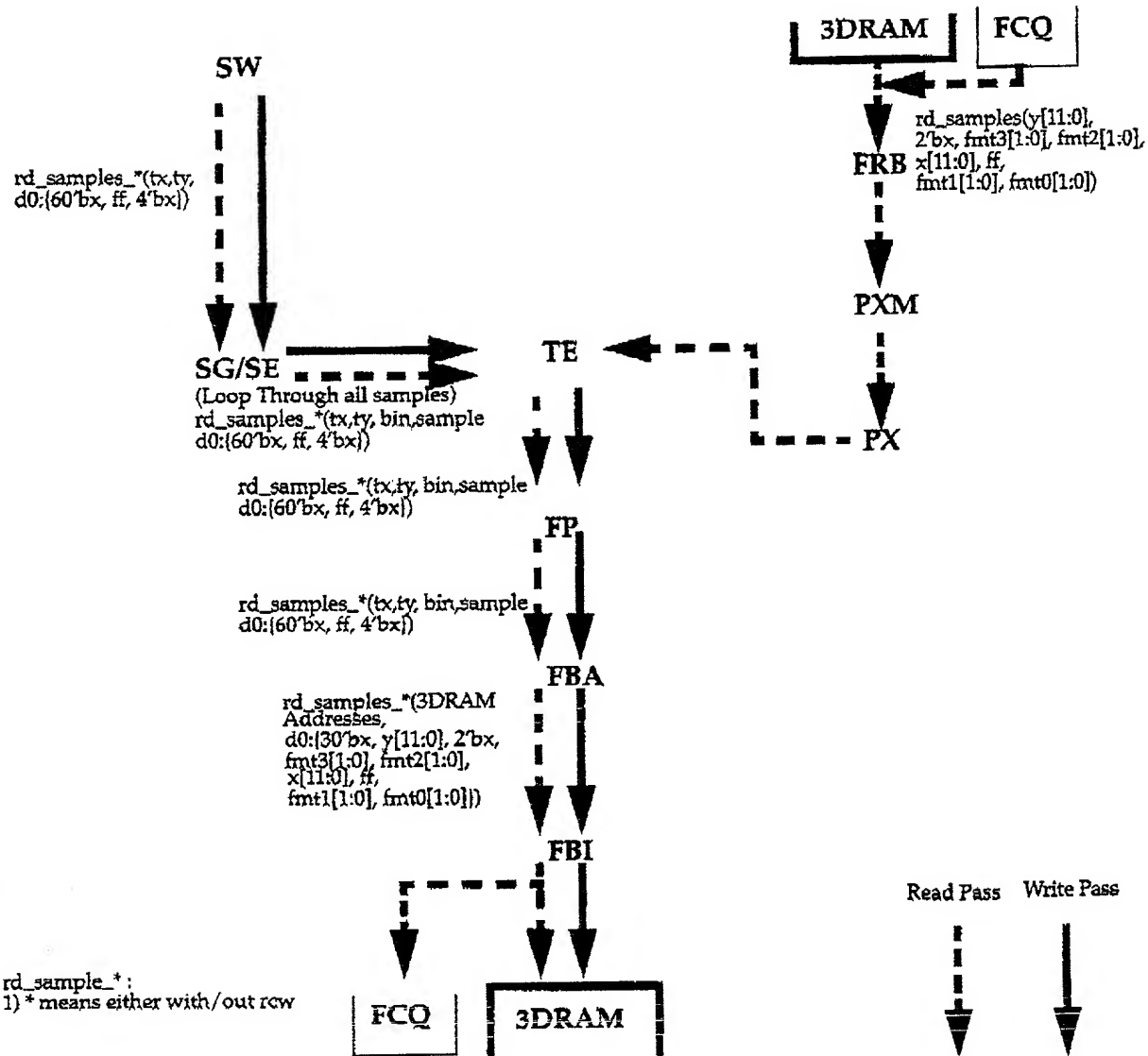


Fig 36

203220 9E95B00F

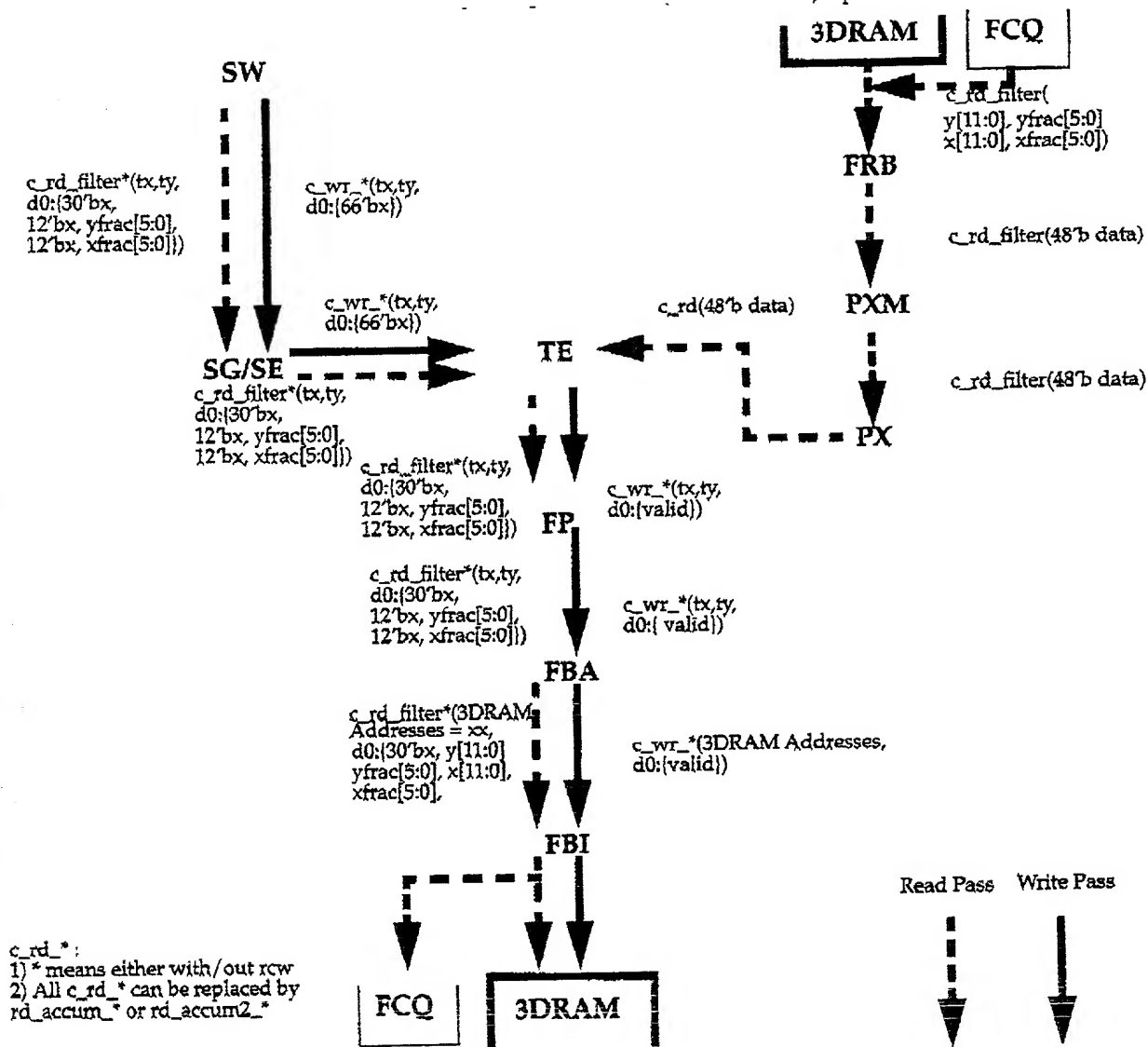


Fig 37